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amphibians, the reptiles, birds, the bony fishes, and lastly the mammals, with man, "the last and greatest winner in life's races."

The story is most skillfully told; it will charm the grown-up naturalist, and, as we have reason to know, interest an intelligent lad. The wood-cuts, some of which we reproduce, are by Mr. Carreras, and are geological restorations of unusual excellence. The frontispiece, illustrating the phosphorescent fishes, is by Mr. Smit. The authoress acknowledges the aid of Professor W. Kitchen Parker, Mr. Alfred R. Wallace and others, and her work while very readable is also reliable. We can see no points open to serious criticism.

BAUME'S ODONTOLOGICAL RESEARCHES¹—This is not a systematic work on odontology, but a series of chapters on the general nature of teeth, containing the results of the author's original researches, and well illustrated by numerous wood-cuts. The first part is an attempt at a developmental history of the teeth. After stating the nature of the theory of natural selection, the author enters into an elaborate general description of the dermal armor of vertebrates, which is followed by descriptions of the placoid scales and teeth, and the teeth of other fishes, as well as those of amphibians and reptiles, and a section on the development of mammalian teeth. The following subjects are then discussed: the reduction of the teeth; the strengthening in their sockets of mammalian teeth, especially the relations between the teeth and bones; the hard tissues of teeth; the physiology of dental substance; the ever-growing teeth (*wurzellose zähne*) of mammals, *i. e.*, those with an exposed pulp, as the incisors of rodents, and the tusks of the elephant; the formation of the crown and root; the specialized teeth; the transformation of tooth-forms; the milk-teeth; the diphyodont semblance of mammals; the third dentition; the typical number of mammalian teeth of the present time; the last rudiments of lost teeth in the jaws of other mammals, and finally he discusses teeth and their organism.

The second part is of more practical interest, discussing the defects of the hard parts.

RECENT BOOKS AND PAMPHLETS.

- A. S. Packard, Jr.*—American Science Series, Briefer Course, Zoölogy. H. Holt & Co. 1883. 12°, pp. 334.
- Cragin, F. W.*—A contribution to the History of the Fresh-water Copepoda. Ext. Trans. Kan. Acad. Sci., May, 1883. From the author.
- Harger, Oscar.*—Report on the Isopoda. Bull. Mus. Comp. Zoöl., Vol. XI, No. IV. Results of dredging on E. coast U. S., 1880. Sept., 1883. From the author.
- Agassiz, Alex.*—The Porpitidæ and Velellidæ. Mem. Mus. Camp. Zoöl., Vol. VIII, No. 2. Surface fauna of the Gulf Stream. July, 1883. From the author.
- Kunz, G. F.*—American Gems and Precious Stones. Ext. from "The Mineral Resources of the U. S." Washington, 1883. From the author.

¹ *Odontological Forschungen.* Von ROBERT BAUME. Leipzig, Verlag von Arthur Felix, 1882. 8vo, pp. 307, 191.